Memorandum

Flex your power!
Be energy efficient!

To: ROBERT CAMARGO

Program Advisor Roadway Preservation Date: September 29, 2011

File: 04-CC-242-PM R0.0/R3.4

PSSR Refresher

EA 04-26980K - SHOPP 201.121

Pavement Rehabilitation

EA 04-4G060K - SHOPP 201.110

Bridge Rehabilitation

From:

YADOLLAH FATHOLLAHI

Project Management East

Subject: Project Initiation Document (PID) Refresher

Background

The Project Scope Summary Report (PSSR) for the above-referenced project EA 04-26980K was approved on October 2, 2001 to program in the 2002 State Highway Operation and Protection Program (SHOPP), HA-22 Program, but not programmed. This project cost has been "refreshed" for programming in the 2012 SHOPP.

Project Scopes

In Contra Costa County in the city of Concord on Route 242 from Route 680 to Route 4, this project proposes the following improvements:

- 1) Pavement Rehabilitation: replace the failed PCC with 3rd stage cracks, repair spalls, seal cracks, grind the whole width of the PCC pavement, repair failed outside shoulders, overlay on-ramps and off-ramps with AC, improve drainage work, upgrade Metal Beam Guardrails to current standards as needed, remove and replace Type A dikes with Type C, E, or F dikes at specific locations, upgrade curb ramps and pedestrian facilities to ADA standards, and repair southbound Olivera Road loop on-ramp due to slope slipping
- 2) Bridge Rehabilitation: replace bridge approach slabs and bring the existing bridge approach rails to current standards

Following is the breakdown of the project capital outlay and support cost estimates for the two aforementioned proposals, based on Headquarters' recommended escalation rate of 4% for all escalation computations, 10% mobilization and 20% contingency for construction costs, and 20% of construction costs for support costs.

1) Pavement Rehabilitation: (EA 26980K)

Item		Lane-miles /				
No.		Number	Quantity	Unit	Unit Price	Item Cost
	PAVEMENT WORK					
1	Digouts		1,080	CY	\$70.0	\$76,000
	AC Overlay of AC Pavement (recycle not included) - Mainline					
2	a) Cold Plane AC Pavement		112,060	SQYD	\$1.5	\$168,000
	b) Rubberized Hot Mix Asphalt (Gap Graded), RHMA-G		2,610	TON	\$95.0	\$248,000
	c) Hot Mix Asphalt (Type A), HMA-A		13,180	TON	\$80.0	\$1,054,000
3	Hot Recycled AC					
4	AC Overlay of PCC Pavement	,				
	PCC Pavement Work					
	a) grind PCC slabs		86,490	SQYD	\$7.0	\$605,000
5	b) replace failed PCC slabs w/ Rapid Strength Concrete		1,080	CY	\$600.0	\$648,000
	c) Reserve 10% add'l fund of PCC slabs replacem't for CTB layer per					
	Materials Recommendation		LS	LS	LS	\$65,000
	Ramps and OC/UC Approaches					
6	a) Cold Plane AC Pavement		57,630	SQYD	\$1.5	\$86,000
	b) Rubberized Hot Mix Asphalt (Gap Graded), RHMA-G		9,400	TON	\$95.0	\$893,000
	Reconstruct Lane(s) - Outside Shoulders					
7	a) Cold Plane AC Pavement		2,390	SQYD	\$1.5	\$4,000
	b) Rubberized Hot Mix Asphalt (Gap Graded), RHMA-G		660	TON	\$95.0	\$62,700
	Repair Southbound Olivera Road Loop On-ramp Due To Slope Slipping					
	(Excluding 10% Mobilization & 20% Contingency) - Total Capital Cost					\$201,000
	a) Cold Plane AC Pavement		3,020	SQYD	\$1.5	(\$5,000)
	b) Rubberized Hot Mix Asphalt (Gap Graded), RHMA-G		410	TON	\$95.0	(\$39,000)
8	c) Hot Mix Asphalt (Type A), HMA-A		610	TON	\$80.0	(\$49,000)
o	d) Class 2 Aggregate Base		220	CY	\$100.0	(\$22,000)
	e) Pavement Delineation		LS	LS	LS	(\$12,000)
	f) Misc Items (misc paving, misc roadside items removal, & erosion		LS	LS	LS	(\$12,000)
	g) Other misc items (Traffic Control & TMP w/ COZEEP)		LS	LS	LS	(\$58,000)
	h) Construction Site BMPs (approximately 2% of total project cost)		LS	LS	LS	(\$4,000)
9	Edge Drain (list side/mile)					
	COST SUBTOTAL					\$4,111,000

Notes:

(1) This is the Total Capital Cost (current dollars) for the "Repair SB Olivera Rd On-ramp" proposal only, excluding 10% Mobilization and 20% Contingency. Following is the project capital outlay and support cost estimates for this proposal, including 10% Mobilization and 20% Contingency.

Capital Cost:

Construction Capital:

\$261K (current dollars)

Right of Way Capital:

\$0 (current dollars)

Ready-to-list (RTL) cost in November 2015:

\$297K (escalated)

Mid-year construction cost in September 2016:

\$308K (escalated)

Capital Support Cost: \$52K (current dollars)

(2) Costs as shown in parentheses and italics are included in the Total Capital Cost for the "Repair SB Olivera Rd On-ramp" proposal.

		Does the Project				
Item		Include?				
No		(Yes/No)	Quantity	Unit	Unit Price	Item Cost
	NON-PAVEMENT WORK					
10	Drainage Rehabilitation (Work type: roadside, offsite)	Yes	LS	LS	LS	\$100,000
	Pedestrian Facilities: ADA Curb Ramps & Sidewalks	Yes				
11	a) Upgrade ADA Curb Ramps		16	EA	\$5,000.0	\$80,000
	b) Upgrade ADA Traffic Islands		2	EA	\$3,000.0	\$6,000
	c) Misc. ADA Electrical Items		LS	LS	LS	\$25,000
	Metal Beam Guardrails (MBGR)	Yes				
12	a) New installation		6,670	LF	\$20.0	\$133,400
12	b) Reconstruction		1,360	LF	\$20.0	\$27,200
	c) Removal of existing MBGR		1,480	LF	\$9.0	\$13,320
13	Replace AC Dike (C, E, or F)	Yes	LS	LS	LS	\$80,000
14	Traffic Control	Yes	LS	LS	LS	\$225,000
15	TMP (COZEEP included)	Yes	LS	LS	LS	\$297,000
_16	Pavement Delineation	Yes	LS	LS	LS	\$108,000
17	Terminal End Sections (Type SRT)	Yes	1	EA	\$2,500.0	\$2,500
18	Roadside Signs	Yes	LS	LS	LS	\$10,000
19	Develop Water Supply	Yes	LS	LS	LS	\$18,000
20	Clearing & Grubbing	Yes	LS	LS	LS	\$18,000
21	Resident Engineer's Office Space	Yes	LS	LS	LS	\$90,000
22	Environmental Compliance	Yes	LS	LS	LS	\$15,000
23	Highway Planting & Replacement Planting	Yes	LS	LS	LS	\$10,000
24	Miscellaneous Paving	Yes	LS	LS	LS	\$20,000
25	Erosion Control	Yes	LS	LS	LS	\$10,000
26	Relocation/Removing Misc Roadside Items	Yes	LS	LS	LS	\$15,000
27	Stormwater: Construction Site BMPs (Approx. 2% of total project cost)	Yes	LS	LS	LS	\$108,000
	COST SUBTOTAL					\$1,411,000
	SUM OF SUBTOTALS					\$5,522,000
	20% Contingency					\$1,104,000
	10% Mobilization					\$552,000
28	Right of Way (Utility Relocation)	Yes	LS	LS	LS	\$5,000
	TOTAL PROJECT COST (Current Dollars)					\$7,183,000

2) Bridge Rehabilitation: (EA 4G060K)

	PRELIMINARY PROJECT <u>CAPITAL</u> COST ESTIMATE SUMMARY						
Item							
No.		Quantity	Unit	Unit Price	Item Cost		
	BRIDGE REHABILITATION		EXCITE HIS CO.		THE REAL PROPERTY.		
1	Remove Concrete (Bridge Approach Slabs)	600	CY	\$70.0	\$42,000		
2	Replace Bridge Approach Slabs w/ Rapid Strength Concrete	600	CY	\$1,200.0	\$720,000		
3	Paving Notch & Joint Seal	LS	LS	LS	\$80,000		
4	Terminal End Sections (Type SRT)	2	EA	\$2,500.0	\$5,000		
	Upgrade Bridge Approach Rails (Bridge End Connection)						
5	a) Replace/upgrade bridge approach rails	280	LF	\$20.0	\$6,000		
,	b) Reconstruct bridge approach rails	350	LF	\$20.0	\$7,000		
	c) Remove existing bridge approach rails	280	LF	\$9.0	\$3,000		
	COST SUBTOTAL				\$863,000		
	10% Mobilization				\$86,000		
	20% Contingency				\$173,000		
6	Right of Way (Utility Relocation)	LS	LS	LS	\$0		
	TOTAL PROJECT COST (Current Dollars) \$1,122,000						

It is recommended that the pavement rehabilitation work along with associated guardrails, dikes, and ramp slip out repair be programmed in the same pavement rehabilitation program 201.121 in the 2012 SHOPP under EA 26980K. Following is the project capital outlay and support cost estimates for this combined proposal.

Capital Cost:

Construction Capital:

\$7.178M (current dollars)

Right of Way Capital:

\$5K (current dollars)

Ready-to-list (RTL) cost in November 2015:

\$8.185M (escalated)

Mid-year construction cost in September 2016:

\$8.486M (escalated)

Capital Support Cost: \$1.436M (current dollars)

For the "Bridge Rehabilitation" proposal, it is recommended to be programmed in the bridge rehabilitation program 201.110 in the 2012 SHOPP in the 2015/2016 FY under a reserved EA 4G060K. Following is the project capital outlay and support cost estimates.

Capital Cost:

Construction Capital:

\$1.122M (current dollars)

Right of Way Capital:

\$0 (current dollars)

Ready-to-list (RTL) cost in November 2015:

\$1.279M (escalated)

Mid-year construction cost in September 2016:

\$1.326M (escalated)

Capital Support Cost: \$224K (current dollars)

Should you have any questions or need additional information, please contact Jonathan Dang, Project Engineer, at (510) 622-5963 or myself at 510-286-6018.

Robert Camargo 9/29/2011 Page 5

Attachments:

- (1) Project Fact Sheet w/ Updated Schedule
- (2) Updated Project Capital & Support Cost Estimate Summary (Current & Escalated)
- (3) Updated Right of Way Data Sheet
- (4) Updated Materials Study and Recommendations
- (5) Preliminary Environmental Analysis Report
- (6) Transportation Management Plan
- (7) Risk Management Plan
- (8) Short Form Storm Water Data Report (SWDR) Signature Sheet
- c: PPang/RCamargo/YFathollahi/RBlanco/Project File

JD/jd

FACT SHEET

Pavement Rehabilitation (CAPM) & Bridge Rehabilitation **Contra Costa County**

Project EA:

Pavement Rehabilitation: 04-26980K (Project ID 0412000159)

Bridge Rehabilitation: 04-4G060K (Project ID TBD)

Project Location:

In Contra Costa County in the city of Concord on Route 242 from Route 680 (PM R0.00)

to Route 4 (PM R3.40)

Project Description:

1) Pavement Rehabilitation: replace the failed PCC with 3rd stage cracks, repair spalls, seal cracks, grind the whole width of the PCC pavement, repair failed outside shoulders, overlay on-ramps and off-ramps with AC, improve drainage work, upgrade Metal Beam Guardrails to current standards as needed, remove and replace Type A dikes with Type C, E, or F dikes at specific locations, upgrade curb ramps and pedestrian facilities to ADA standards, and repair southbound Olivera Road loop on-ramp due to slope slipping 2) Bridge Rehabilitation: replace bridge approach slabs and bring the existing bridge approach rails to current standards

Purpose and Need:

The need for this project is to improve the poor condition of the existing facilities and

improve safety.

The purpose of this project is to provide preventive treatments to preserve the good condition of the existing roadway pavement and to provide pavement rehabilitation to

extend its service life.

Sponsor Agency:

Caltrans - Maintenance/Traffic Safety

Fund Sources:

Pavement Rehabilitation: SHOPP 201.121

Bridge Rehabilitation: SHOPP 201.110

Type of PID:

PSSR

Environ Doc:

PEAR

Project Capital Cost (estimated current year): Approximately \$8.305 million (without support cost)

Current Status:

The Office of Advance Planning is "refreshing" a Project Scope Summary Report (PSSR) which was approved on October 2, 2001 to provide updates on the project scope, schedule, and cost estimates in order for this PSSR to be programmed in the SHOPP 2012 cycle, under the 201.121 program (CAPM) and 201.110 program (Bridge Rehab).

Outstanding Issues:

No outstanding issues.

Tentative Schedule:

PSSR Approval	09/16/2011
PA&ED	07/01/2013
District PS&E	07/01/2015
RTL	11/01/2015
Approve Contract	03/01/2016
Contract Acceptance	03/01/2017
End Project	09/01/2017

Responsible Unit (Lead): Yadollah Fathollahi

- Project Manager (510) 286-6018 Robert Blanco - Branch Chief, PSR II (510) 286-5676 Jonathan Dang - Project Engineer (510) 622-5963

Updated: 9/16/2011 Prepared By: JD

26980K-PSSR-Cost-Est-Combined-rev.xlsx

04-CC-242-PM 0.0/3.4 PSSR REFRESHER PAVEMENT REHABILITATION + REPAIR SLIP-OUT RAMP (EA 26980K, SHOPP 201.121) BRIDGE REHABILITATION (EA 4G060K, SHOPP 201.110)

PROJEC	PROJECT CAPITAL & SUPPORT COST ESTIMATE SUMMARY (CURRENT & ESCALATED)	UPPORT CO	ST ESTIMA	TE SUMMARY (CURRENT	& ESCALA	(TED)		
	CURRENT	T COST ESTIMATE	MATE		절	SCALATED C	ESCALATED COST ESTIMATE		
PROJECT COST COMPONENT	PSSR Refre	PSSR Refresher (September 2011)	sr 2011)	RTL (P	RTL (November 2015)	(6)	Mid-Year Construction (September 2016)	truction (Septe	nber 2016)
	PAVEMENT, GUARDRAILS, DIKES	REPAIR SLIP-OUT RAMP	BRIDGE REHAB	PAVEMENT, GUARDRAILS, DIKES	REPAIR SLIP-OUT RAMP	BRIDGE REHAB	PAVEMENT, GUARDRAILS, DIKES	REPAIR SLIP-OUT RAMP	BRIDGE
R/W Capital	\$5,000	0\$	\$0	\$5,000	\$0	\$0	\$5,000	\$0	\$0
Construction Capital	\$5,321,000	\$201,000	\$863,000	\$6,063,000	\$229,000	\$983,000	\$6,286,000	\$237,000	\$1,020,000
10% Mobilization	\$532,000	\$20,000	\$86,000	\$606,000	\$23,000	\$98,000	\$628,000	\$24,000	\$102,000
20% Contingency	\$1,064,000	\$40,000	\$173,000	\$1,212,000	\$46,000	\$197,000	\$1,257,000	\$47,000	\$204,000
TOTAL CAPITAL (CONSTRUCTION & R/W)	\$6,922,000	\$261,000	\$1,122,000	\$7,888,000	\$297,000	\$1,279,000	\$8,178,000	\$308,000	\$1,326,000
TOTAL SUPPORT (20% of TOTAL CAPITAL)	\$1,384,000	\$52,000	\$224,000	\$1,578,000	\$59,000	\$256,000	\$1,636,000	\$62,000	\$265,000
TOTAL PROJECT COST (SUPPORT & CAPITAL)	\$8,306,000	\$313,000	\$1,346,000	\$9,466,000	\$356,000	\$1,535,000	\$9,814,000	8370,000	\$1,591,000
TOTAL CAPITAL COST (PAVEMENT+GUARDRAILS+DIKES &									
REPAIR SLIP-OUT RAMP)	\$7,183,000	000	1598, 357, 840E	\$8,185,000	000		\$8,486,000	000	
TOTAL SUPPORT COST (PAVEMENT+GUARDRAILS+DIKES &									
REPAIR SLIP-OUT RAMP)	\$1,436,000	000		\$1,637,000	000		\$1,698,000	000	
TOTAL CAPITAL COST (BRIDGE REHAB ONLY)			\$1.122.000			\$1.279,000			\$1.326.000
TOTAL SUPPORT COST (BRIDGE REHAB ONLY)			\$224,000			\$256,000			\$265,000

	A	ttention	: Jonathan Dang	EA 26980K
E-	rom:	ENID	Project Engineer	Roadway Rehab (PSSR Refresher)
Γ.	<u>r</u> om.		of Way Resource Manager	D.S. #5992 (UPDATED)
		6		
S	ubje	et: Curr	ent Estimated Right of Way Costs	
W	e rec	eived fi	pleted an estimate of the right of way costs for the rom you on August 24, 2011 wing assumptions and limiting conditions.	e above referenced project based on maps
[]	1.	The mapping did not provide sufficient detail to d required.	etermine the limits of the right of way
[]	2.	The transportation facilities have not been sufficient determine the damages to any of the remainder particles.	• •
[]	3.	Additional right of way requirements are anticipat preliminary nature of the early design requirement	•
[]	4.	This estimate does not include \$ right project, which may affect the total project right of	
-]	5.	We have determined there are no right of way fun project at this time, as designed.	• •
from (P) of	ay reewary PS the con	equirements agreed CAN not project. demnati	Lead Time will require a minimum ofmontents (PYPSCAN node No. 224), necessary environments have been approved. From the date of recode No. 265), we will require a minimum of Shorter lead times will require either more right ion suits to be filed. Either of these actions may are public image generally.	mmental clearance has been obtained, and ceipt of final right of way requirementsmonths prior to the date of certification of way resources or an increased number
				Right of Way Resource Manager
A	ttach	ments:		Table of the alternation is a second of the
			Right of Way Data Sheet – Page One (always requested the Right of Way Data Sheet – All Pages (required what acquired) Utility Information Sheet Railroad Information Sheet	

T0: Advance Planning-PSR II

Exhibit 01-01-01

EA:

26980K

Project ID:

04

			<u>R</u>	IGHT (OF WAY DATA	SHEET			,	Page	1 of 5
TO:	Off	ice of Advance	Planning	Date	8/31/2011	D.S.#_		5	992		•
				Dist.	04Co.	CC	Rte	242	PM_	0.0/3.4	<u>.</u>
				EA	04-26980K (04	4)					
ATTN	: RC	BERT BLANCO)	Proje	ct Description:	Roadywa	ay Rehab) <u>. </u>			•
SUBJ 1.	ECT:	Right of Way Right of Way (No.							
					Current Value (Future Use)	ł	Escalation Rate			Escalat Value	
	A.	Acquisition, included Lands, Damages,			\$0.00			%	_		\$0.00
		Project Permit Fe	es						_		\$0.00
		Grantor's Apprais	al Cost						_		\$0.00
	B.	Utility Relocation	(State Share)		\$5,000.00			%		\$5,0	00.00
	C.	Railroad (from pa	age 6)						_		\$0.00
	D.	Relocation Assist	tance		\$0.00			%	_	_	\$0.00
	E.	Clearance Demo	lition		\$0.00			%	_		\$0.00
	F.	Title and Escrow	Fees		\$0.00			%	_		\$0.00
	G.	TOTAL ESCALAT	ED VALUE						2	\$5,0	00.00
	H.	Construction Cor	ntract Work		\$0.00	- 1					
2.	Ant	ticipated Date o	f Right of Way	Certific	cation	8/.	20/2				
3.		Parcel Data:				•					
		<u>Type</u>	Dual/Appr		<u>Utilities</u>		RR Involve	ments			
	X			U4-1			None				<u> </u>
	A B			-2 -3			C&M Agrm Svc Cont.	į			
	С			-4				Design			
	D			U5-7	2			Const.			
	E F	XXXX		-8 -9		L	ic/RE/Clau	ıses			
	•			Ο,		<u> </u>	/lisc R/W V	<u>Vork</u>			
							RAP Displ				0
		0					Clear Demo				0
	Total	0	_				Const. Perr Condemna				0 0
Areas:	Ric	ht of Way		No E	xcess Parcels		Excess	uori			<u> </u>
	_	S Screens	8/3//11	By	1 1 1 1	A	_^0699 -				
		E Screen (Railr	oad Data Only)		1	By					
		•	3,			<i>'</i> –					

Exhibit

01-01-01

EA: Project ID: 26980K 04

Page 2 of 5

4.	Are there any major items of construction contract work? Yes No (If yes, explain)
5.	Provide a general description of the right of way and excess lands required(zoning, use, major improvements critical or sensitive parcels, etc.). No right of way required.
6.	Is there an effect on assessed valuation? (If yes explain) Yes
7.	Are utility facilities or rights of way affected? Yes No If yes, attach Utility Information Sheet Exhibit 01-01-05)
8.	Are railroad facilities or rights of way affected? Yes No No If yes, attach Railroad Information Sheet Exhibit 01-01-06)
9.	Were any previously unidentified sites with hazardous waste and/or material found? Yes
10.	Are RAP displacements required? Yes ✓ No ✓ (If yes, provide the following information)
	No. of single family No. of business/non profit
	No. of multi-family No. of farms
	Based on Draft / Final Relocation Impact Statement / Study dated, it is anticipated that sufficient replacement housing will / will not be available without Last Resort Housing.
11.	Are material borrow and / or disposal sites required? Yes No (If yes, expalin)
12.	Are there potential relinquishments / abandonments? Yes No 🔽 (If yes, expalin)
13.	Are there any existing and/or potential Airspace sites? Yes No (If yes, expalin)

				•	Page 3 o	of 5
14.	Are there Environmental Mitigation costs? (If yes, explain)	Yes	Г	No	V	
15.	Indicate the anticipated Right of Way schedulif District proposes less that PMCS lead time project advancement are anticipated.)			•	`	
	PYPSCAN lead time (from Regular R/W to p	oroject o	certification	6	_ months.	
16.	Is it anticipated that all Right of Way work be Yes ✓ No ✓ (I	e perfor f no, dis	-	LTRANS sta	aff?	

Exhibit

Project ID:

EA:

01-01-01

26980K

04

Exhibit

01-01-01

EA:

26980K

Project ID:

04

Page 4 of 5

Assumptions and Limiting Conditions

0	This data sheet was comp	leted without a h	nazardous was	ste/materials report.
---	--------------------------	-------------------	---------------	-----------------------

Information on this provided by	data sheet was based on maps Robert Blanco on 8/24/20	11
Evaluation Prepar	ed By: Renata Frey	
Right of Way:	Name Rough Frey	Date 8/31/11
Railroad:	Name Tal	Date <u> </u>
Utilities:	Name Jus Munnige	Date <u>8-31-71</u>
	Recommended for Approval:	<
	Right of Way Capital Cost Coordin	ator

I have personally reviewed this Right of Way Data Sheet and all supporting information. It is my opinion that the probable Highest and Best Use, estimated values, escalation rates, and assumptions are reasonable and proper subject to the limiting conditions set fourth, and find this Data Sheet complete and current.

Chief, WW Appraisal Services

9-7-11

Date

cc: Program Manager Project Manger

Exhibit EA:

01-01-01

Project ID:

26980K

roject iD:

04 Page 5 of 5

UTILITY INFORMATION SHEET

Utility owners located within project limits: PG&E, AT&T, Comcast, CCCSD, CCWD
Facilities potentially impacted by project (if known, include Owners(s) & facility type(s)): None
Anticipated Workload: X Utility Verification required Positive Identification Utility Relocation Other (Specify)
Additional information concerning anticipated utility involvements (include limiting conditions and a narative addressing likelihood that conflicts will occur);
Involves possible relocation of electric transmission facilities (If X'd, Data sheet should be forwarded to environmental)
PMCS input information
U4-1Owner Expense Involvements
U4-2 State Expense Involvements
(Conventional, No Fed Aid) U4-3State Expense Involvements (Freeway, No Fed Aid)
U4-4 State Expense Involvements (Conventional or Freeway, Fed Aid)
U5-7 2 Verifications - without involvements
U5-8 Verifications - 50% involvements
U5-9Verifications resulting in involvements
NOTE: The sum od U-4's must equal the sum of ½ of the U5-8's and all of the U5-9's.
ESTIMATED STATE SHARE OF COSTS \$ 5000
Perepared by: Leo Munneke 8/3/// Right of Way Utility Coordinator Date

Memorandum

Flex your power!
Be energy efficient!

To: ROBERT BLANCO

District Branch Chief

Office of Advance Planning - PSR II

Attn. Jonathan Dang

Date:

September 1, 2011

File:

04-CC 242 PM 0.0/3.4

04-26980K

Expedited 2012 SHOPP PID Candidate - CAPM

From:

PAULA KINDINGER-WILCOX

Materials Design/Engineer

Engineering Services I-Materials A

Concurred by:

FARAH BIRANG, P.E.

District Branch Chief, WPS

Engineering Services I - Materials

Subject: CAPM Preliminary Materials Recommendations for PID

This memo is in response to your request to provide your office with preliminary Materials Recommendations for a CAPM project which proposes to preserve the existing roadway by replacing failed PCC slabs and grinding the whole width of the PCC pavement, digging out and replacing failed Asphalt Concrete pavement on the mainline and all ramps, and overlaying the AC pavement within the project limits. This project also proposes to reconstruct failed AC shoulders on the mainline and on SB Olivera Rd. On-ramp

EXISTING FACILITY

Route 242, at the above location, is a 6 lane divided highway with substandard shoulder widths. In each direction of travel, the roadway consists of an AC no.1 lane with the 2 outside lanes consisting of PCC. The shoulders are also AC. Based on a review of our Materials Files and the available as-builts, this portion of Route 242 was originally built in 1962 under contract 4TOH1103 with 2 lanes in each direction consisting of 0.67' PCC / 0.33' CTB(B) / 1.0' AS(2). The shoulders were constructed of 0.25' AC(A) / 0.75' AB(2) / 1.0' AS(2). Ramps were also constructed under this contract with 0.25' AC(A) / 0.67' CTB / AS(2). They include Solano on and off ramps, Willow Pass Rd on and off ramps and Concord Ave NB on and SB off. The inside lane was constructed in 2001 under contract 228351 with 180 mm AC / 195 CTB(A) / 205 or 305 mm Lime Treated Subgrade, depending on the location. In the year 2000, AC auxiliary lanes were added in both directions, from Concord Ave to Grant / Solano Way, under contract 228294. The auxiliary lanes were constructed of 0.40' to 0.60' AC(A) / 0.60' to 0.80' AB(3) /

Robert Blanco September 1, 2011 Page 2

0.75' to 1.05' AS(4) with an ATPB layer and edge drains in the area near the sound wall on the SB side. Also in this contract Concord Ave NB and SB on and off ramps and the Grant / Solano SB on and off ramps were constructed with 0.50' AC(A) / either ATPB or AB(3) / AS(4). Edge drains were placed on most of those ramps.

The NB PCC between PM 1.5 to 1.7 and PM 2.5 to the end of the route was overlaid with an unknown thin AC layer.

EXISTING CONDITIONS

Based on our field observations on August 22 and 25, 2011, review of the Pavement Condition Survey and review of the Roadway Explorer, we have noted the following problems with the existing pavement. According to the attached 2007 Pavement Condition Report (PCR), there are many locations with an unacceptable Internal Roughness Index (IRI); an acceptable IRI is below 170.

- During our site visit we noticed the PCC portion of Highway 242 appears to be in poor condition in some areas, with a lot of stage 3 cracking in the no. 3 lane and also a moderate amount of 3rd stage cracking in the no. 2 lane along with faulting and large transverse cracks. The PCC has been patched in many locations; some patching was done with AC and some with concrete. There are also a lot of sealed cracks visible.
- The inside AC lane appears to be in fair to good condition with a few visible cracks. The PCC roadway with the thin AC layer has joints reflecting through the AC near the Olivera off-ramp along some raveling, alligator cracking and a few large transverse cracks.
- Also noted, is the condition of the ramps within the project limits. While most ramps are in fair to good condition with only slight alligator cracking, Olivera SB on-ramp is in poor condition. The ramp has a slope that is slipping, and the shoulders seem to be pulling away from the traveled way and are crumbling apart.
- The outside AC shoulders on the mainline are in good to poor condition with an extensive amount of cracking, potholes, and rutting in the bad areas.

PAVEMENT RECOMMENDATIONS

AC Preparatory Work

A.

- 1. Conduct a field review and locate specific areas of severe distress identified by alligator "B" or "C" cracking, rutting greater than 1" and/or loose and spalling pavement.
- 2. Dig out and repair with HMA-A, the distressed localized areas to the bottom of the AC layer or up to a maximum of 0.50' in depth, whichever is less. However, for the areas with severe alligator cracking or potholes, it will be necessary to dig out the full depth of the AC.

3. Clean and seal all cracks wider than 1/4". Squeegee off any excessive crack sealant on the surface.

B.

1. Repair the transverse crack at approximately PM 1.7 in the NB direction. Dig out to the bottom of the AC layer and 5' feet on each side of the crack, replace with HMA-A and then follow the AC mainline recommendations below.

<u>AC MAINLINE</u>

- Where the No 1 lane is adjacent to PCC lanes; cold plane the existing pavement to a depth of 0.20' and replace with 0.20' RHMA-G
- In the areas which are PCC with an AC overlay; use the following recommendation from edge of pavement to edge of pavement.
 - o Place 0.10' HMA-A, then place a Geosynthetic Paving Mat before overlaying the pavement with 0.15' RHMA-G, this will help retard the joints reflecting through the AC.

PCC MAINLINE

All lanes of existing PCC pavement shall be ground to correct poor ride quality as the result of faulting, slab curls, and irregular slab replacement surfaces.

Prior to grinding we recommend:

- All slabs with 3rd stage cracking should be removed and replaced, excluding the existing CTB layer. In order not to damage the adjacent slabs and CTB base, the slab removal techniques as described in the September 2008, Caltrans Slab Replacement Guidelines should be used.
 - 1. If slab removal causes excessive damage, such as significant removal of the CTB or excessive fracturing of the CTB, the entire base must be removed and replaced with rapid strength concrete (RSC).
 - 2. We recommend using RSC for slab replacement due to the anticipated short construction window. The RSC should be placed in split pour with a bond breaker between RSC layers if both the CTB and the PCC slab are replaced. We recommend reserving additional funds of 10% of slab replacement and cost for replacing the CTB layer if necessary.
- Slab Repair: We recommend repairing spalls and corner cracks and routing, cleaning and sealing all other cracks wider than 1/4"

Robert Blanco September 1, 2011 Page 4

MAINLINE SHOULDERS

- Shoulders in fair to good condition next to the PCC lanes: Cold plane 0.15' and replace with 0.15' RHMA-G
- Shoulders in the AC sections should be treated with the same CAPM solution as the adjacent AC mainline.
- Shoulders in poor condition: Reconstruct with the following section*:

We will assume an R-value of 15 and use a TI of 9 which is according to the document, <u>Expectations for Pavement SHOPP PID Documents</u>, dated 08/26/2011 by Bill Farnbach. When this project is scheduled and goes to PS&E, we will verify the R-value by sampling and testing the soil.

Design Factors: TI = 9, $R_v = 15$, G.E. = 2.45

Shoulders

G.E.

1.10' HMA-A

2.51'

APPROACHES and DEPARTURES

Based on our field review, we believe most approaches and departures need work as a part of the CAPM project. We recommend contacting the Office of Structures for final recommendations regarding rehabilitation and/or retrofitting with new approach slabs.

RAMPS

1. SB Olivera Rd. On Ramp

- We recommend contacting the Geotechnical Department regarding the slope slipping on this ramp in order to investigate possible causes.
- Reconstruct the shoulders of this ramp using the following shoulder section:

Design Factors: TI = 9, $R_v = 15$, G.E. = 2.45

^{*} There may be retrofitted edge drains in the existing shoulder sections, please remove and do not replace them.

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	Should	<u>lers</u>	G.E.
	0.20'	RHMA-G	
	0.70	HMA-A	2.03' (GE for total HMA)
	0.50'	AB(2)	0.55'
Total	1.40'		2.58'

• Place 0.20' RHMA-G over the existing traveled way, if there is a need to maintain the existing profile, we recommend cold planing the existing pavement to depth of 0.20' and replacing with 0.20' RHMA-G.

2. All Ramps except Olivera Rd. SB On Ramp

- Place 0.15' of RHMA-G on ramps with no profile restrictions
- Where there is a need to maintain the existing profile we recommend cold planing 0.15' of the existing pavement and replacing with 0.15' RHMA-G

Notes:

RHMA-G has temperature constraints, the atmospheric temperature must be at least 55 °F when RHMA is spread and compacted and the surface temperature must be at least 60 °F. Since this area can be cool and foggy, even during the summer nights, the project must be scheduled at a time when RHMA placement will be successful.

If you have any questions, please call Paula Kindinger-Wilcox at 286-4692.

c: PKindinger-Wilcox, Route File, Daily File,



PRELIMINARY ENVIRONMENTAL ANALYSIS REPORT

Project Information

District	County	Route	PM	EA				
04	CC	242	0.0/3.4	26980K				
Project Title								
Roadway Rehabilitation								
Project Manager Phone #								
Patrick Pang 510.286.5080								
Project Engineer			Phone #					
Robert Blanco			510.286.567	6				
Environmental Of	fice Chief/Mana	ager	Phone #					
Melanie Brent			510.286.523	1				
PEAR Preparer			Phone #					
Peter Frey			510.622.883	5				

Project Description

Purpose and Need

The purpose is to provide preventative treatments to preserve the good condition of the existing roadway pavement and to provide pavement rehabilitation to extend its service life. The need is to improve the poor condition of the existing facilities, and improve safety.

Description of work

In Contra Costa County in the city of Concord on Route 242 from I-680 to Route 4, this project proposes to replace the failed PCC with 3rd stage cracks, repair spalls, seal cracks, grind the whole width of the PCC pavement, repair failed outside shoulders, overlay on-ramp and off-ramps with AC, improve drainage work, install Metal Beam Guard Rails, remove and replace Type A dikes with Type E dikes at specific locations, upgrade curb ramps and pedestrian facilities to ADA standards, and bring the existing bridge railings on bridges within the project limits to current standard.

Alternatives

The build alternative includes the elements described above. The no build alternative leaves the existing facility unchanged.

Anticipated Environmental Approval

CEQA	20	NEPA	
Environmental Determination			
Statutory Exemption			r
Categorical Exemption	\boxtimes	Categorical Exclusion	\boxtimes
Environmental Document			
Initial Study or Focused Initial		Routine Environmental Assessment	
Study with proposed Negative		with proposed Finding of No	
Declaration (ND) or Mitigated ND		Significant Impact	
		Complex Environmental	
		Assessment with proposed Finding	
		of No Significant Impact	
Environmental Impact Report		Environmental Impact Statement	
CEQA Lead Agency (if determined):			
The California Department of Transpo	ortatio	on (Caltrans) is the lead CEQA	
Agency for the project. FHWA assign	ed, ar	d Caltrans has assumed, all of the	
United States Department of Transpor	tation	(USDOT) Secretary's	
responsibilities under NEPA.			
Estimated length of time (months) to a	obtain	environmental approval:	12
Estimated person hours to complete ic	lentifi	ed tasks:	2619

PEAR Technical Summaries

Farmlands/Timberlands: There are farmlands adjacent to the project area. The proposed project will not require right-of-way currently under cultivation or used for grazing.

Community Impacts: The proposed project will not result in adverse impacts on population growth/sprawl, local economy, municipal or community services, utility services, community character, or existing or proposed land use. There are no Title VI issues, adverse impacts to minority and low-income populations expected.

Visual/Aesthetics: The proposed project is not expected to adversely affect any scenic or visual resources.

Cultural Resources: A records search and a review of in-house resources will be required. We do not anticipate any adverse effects.

Water Quality and Storm Water Runoff: This project must comply with the Department Statewide National Pollutant Discharge Elimination System (NPDES) Permit (Order No.: 99-06-DWQ) and the Construction General Permit (Order No.: 2009-0009-DWQ), both issued by the State Water Resources Control Board (SWRCB). Under the auspices of the SWRCB, the San Francisco Bay Regional Water Quality Control Board (Region 2) has authority to enforce NPDES and Construction General Permit requirements. To comply with these permits, the Department shall consider and incorporate temporary and permanent Best Management Practices (BMPs) using Best Available Technology (BAT) to the Maximum Extent Practicable (MEP), in order to minimize, or prevent, any potential increased impact to existing water quality. Per the Construction General Permit, development and implementation of a Storm Water Pollution Prevention Plan (SWPPP) is required; this shall be prepared per Department Standard Special Provision (SSP) 07-345. The SWPPP is developed by the Contractor, and approved by the Department, prior to commencement of construction. In addition to the general permits mentioned above, it should be anticipated that a 401 Certification, issued by Region 2, will be required. This is to be anticipated, due to proposed drainage work. If this is required, then there may be a conflict with the CE designation.

Hazardous Waste/Materials: The only hazardous waste issue in this project is the bridge railings. If they are to be replaced, they will need to be tested. There are no other hazardous waste issues in this project.

Air Quality: The Project is exempt from the requirement of air quality conformity determination. An air quality study is not required.

Noise and Vibration: The Project has no traffic noise impacts. A noise study will not be required.

Biological Environment:

Caltrans Biologist, Fernando A. Martinez performed a review of threatened and endangered species using the USFWS Endangered Species List website (http://www.fws.gov/sacramento/es/spp_list.htm) and the California Natural Diversity Database (CNDDB, California Department of Fish and Game) on September 1, 2011. This project occurs within the Walnut Creek and Vine Hill U.S. Geological Survey (USGS) quadrangles. Fernando assessed this location for potential biological constraints to the completion of this project using photographs and aerial images. A site visit will need to be conducted to further assess the project location.

Habitat

The proposed work area passes through a highly urbanized area of Contra Costa County. The highly urbanized area includes dense residential and commercial areas associated with the city of Concord. The vegetated areas in the adjacent shoulder and median consist of ruderal grass, low growing annual/perennial vegetation and sparse non-native

trees with small patches scrub. Trees and shrubs located within this right-of-way area are mainly highway landscaping, but may also contain a small number volunteer plants. A site visit will need to be conducted in order to finalize assessment for vegetative communities.

Flora/Fauna

The site was surveyed for federal and state listed plant and animal species habitats using USFWS and CDGF databases, aerial images and photographs. A site visit will need to be conducted in order to finalize assessments for listed plant or animal species. Flora and fauna is limited in the project location. Flora is limited to the median and shoulders. Proximity to SR 242 would limit the existence of fauna on the project site; however habitat disbursements for the California tiger salamander (Fig. 1) have been identified in proximity to the proposed project location.

Table 1. CNDDB results in Walnut Creek and Vine Hill USGS quadrangles.

		-	_	
Common Name	Scientific Name	Listing Status*		
Common Name	Scientific Name	Federal	State	
soft bird's-beak	Chloropyrin molle ssp. molle	E	R	
Contra Costa goldfields	Lasthenia conjugens	E	-	
Mason's lilaeopsis	Lilaeopsis masonii	-	R	
callippe silverspot butterfly	Speyeria callippe calippe	E	-	
California red-legged frog	Rana draytonii	Т	-	
Alameda whipsnake	Masticphis lateralis euryxanthus	Т	T	
salt marsh harvest mouse	Reithrodontomys raviventris	Е	Е	
vernal pool fairy shrimp	Branchinecta lynchi	Т	-	
California freshwater shrimp	Syncaris pacifica	Е	 	
giant garter snake	Thamnophis gigas	T	Т	
California tiger salamander	Syncaris pacifica	Т	T	
valley elderberry longhorn beetle	Desmocerus califonicus dimorphus	T	· · ·	
delta green ground beetle	Elaphrus viridis	T		
green sturgeon	green sturgeon	Т		
delta smelt	Hypomesus transpacificus	T	E	
Central Valley steelhead	Oncorhynchus mykiss	T	-	
Central Valley spring-run chinook salmon	Oncorhynchus tshawytscha	Т	T	
winter-run chinook salmon	Oncorhynchus tshawtscha	Е	C	
western snowy plover	Charadrius alexandrines nivosus	T :	-	
California clapper rail	Rallus longirostris obsoletus	Е	E	
California black rail	Laterallus jamaicensis coturniculus	-	Т	
California least tern	Sternula antillarum browni	Е	Е	

Caltrans concludes that this project will not have an effect to listed species because all work will be confined to existing paved footprints and disturbed road shoulders within existing Caltran's right of ways. Based on the project description no additional impacts will be imposed on any unpaved surfaces. Should there be any changes to these plans; the biologist will need additional site visits to determine any additional impacts. Should any rehabilitations or improvements be conducted off-pavement within any sensitive areas, agency coordination should be anticipated prior to any construction activities.

Wetlands/Water:

Any rehabilitations or improvements which may affect wetlands or waterways will require a site visit in order to finalize assessment based upon final plans. It is anticipated that the proposed project will be conducted on existing road surfaces that cross USACE and CDFG 1602 jurisdictional areas.

Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA; 16 U.S.C. 703-711) protects migratory birds from unlawful activities. Any work within the project limits during nesting season will require protections for Migratory Nesting Birds. Caltrans' constraints measures will provide protection for these species for this project (see Constraints section).

Permits

It is unlikely that permitting with USACE, CDFG, USFWS, and NOAA will be necessary as this project will be confined to the existing roadway, and areas to be impacted are unsuitable habitat for threatened or endangered species. However, should any work occur within 1602 jurisdiction formal consultation should be expected due to anadromous fish species and proximity to California tiger salamander occurrences (Fig. 1).

Constraints

The following measures are necessary to protect biological resources:

• Contractors should utilize Caltrans standard Best Management Practices (BMPs).

- Contractors will conduct all pavement rehabilitations and improvements while operating on existing paved footprints.
- Any off-pavement rehabilitation or improvements made will require further assessments, surveys, permitting and Section 7 consultation should be anticipated.
- Any waste materials or products (i.e. pavement grindings) shall be disposed of at an approved facility, or certified landfill
- All staging will occur within existing paved or gravel turnout areas. Any staging in vegetated areas (grass and low-growing vegetation) or offpavement will require additional assessments from a Caltrans biologist.
- Standard BMPs material shall be in place under any construction equipment being stored, refueled, or maintained at staging area.
- Contractors must implement Caltrans standard BMPs to ensure water quality and limit air borne erosion.
- Environmentally Sensitive Areas (ESAs), including special aquatic features will be identified by ESA (high visibility) orange fencing to be established by Caltrans biologist and the RE prior to construction.
- Any improvements or alterations to any drainage or culverts will require further assessments by a Caltrans biologist to establish any USACE and CDFG jurisdictional areas. Additionally, permitting measures should be anticipated for any work occurring within these areas.
- If clearing and grubbing is required, as a precaution, a Caltrans Biologist will need to conduct additional site assessments to rule out the presence of any species of concern.
- Biologist will need to conduct nesting bird surveys between February 1 and August 15 to comply with the MBTA. A Caltrans Biologist will need three days notice prior to commencement of construction activities to perform a survey for nesting birds.

It is in Caltrans opinion that by complying with these constraints that the proposed work at this location will not affect any listed species.

Further Inquires for Design/Construction

- Will there be a need for additional site assessments for staging locations?
- Will there be any effects to existing waterways with these improvements?

All design changes will require reassessment of biological resources and may delay project. Please forward all plans to the Office of Biological Sciences and Permits as soon as possible.

If you have any questions please contact Fernando Martinez at (510) 286-5999 or Christopher States at (510) 286-7185.

Context Sensitive Solutions: Context sensitive solutions meet transportation goals in harmony with community goals and natural environments. They require careful, imaginative, and early planning and continuous community involvement. There were no early planning activities and community involvement efforts that were undertaken during this initial phase of project development. The project, by its nature is not expected to conflict in harmony with community goals and the natural environment.

Disclaimer

This Preliminary Environmental Analysis Report (PEAR) provides information to support programming of the proposed project. It is not an environmental determination or document. Preliminary analysis, determinations, and estimates of mitigation costs are based on the project description provided in the Project Study Report (PSR). The estimates and conclusions in the PEAR are approximate and are based on cursory analyses of probable effects. A reevaluation of the PEAR will be needed for changes in project scope or alternatives, or in environmental laws, regulations, or guidelines.

Review and Approval

I confirm that environmental cost, scope, and schedule have been satisfactorily completed and that the PEAR meets all Caltrans requirements. Also, if the project is scoped as a routine EA, complex EA, or EIS, I verify that the HQ DEA Coordinator has concurred in the Class of Action.

Environmental Branch Chief

Project Manager

Date: $\frac{9/16/11}{9/16/11}$

REQUIRED ATTACHMENTS:

Attachment A: Environmental Technical Reports or Studies Required

Attachment B: PEAR Mitigation and Compliance Cost Estimate



Attachment A: Environmental Technical Reports or Studies Required

	Study or Report	Document Text Only	Not Anticipated
Community Impact Study	Ê		$\overline{\mathbf{x}}$
Farmland			X
Section 4(f) Evaluation			X
Visual Resources			×
Water Quality	<u>×</u>		
Floodplain Evaluation			\boxtimes
Noise Study		X	
Air Quality Study		X	
Paleontology			X
Wild and Scenic River Consistency			X
Cumulative Impacts Crowth Indusing/Indirect Impacts			X X
Growth Inducing/Indirect Impacts Cultural		Ш	is in the second
Archaeological Survey Report (ASR)		X	
Historic Resources	ä		×
Evaluation Report (HRER)	_		س
Historic Property Survey Report (HPSR)		X	
Historical Resource Compliance Report			\mathbf{x}
SHPO / PRC 5024.5			X
Native American Coordination	X		
Other Finding of Effect:			X
Data Recovery Plan:			X
Memorandum of Agreement*			X
(*if Federal Permit is required)			
Hazardous Waste			
ISA (Additional)			\boxtimes
PSI	X		
Other			
Biological	_	_	
Endangered Species (Federal)	X		
Endangered Species (State)	X	님	
Species of Concern	X	Ы	
(CNPS, USFS, BLM, S, F) Biological Opinion	X		
(USFWS, NMFS, State)	<u> </u>	ш	Ц
Fish Passage Barriers Assessment	X		
Wetlands	X	H	
Invasive Species	X		
Natural Environment Study	X		
NEPA 404 Coordination		<u> </u>	×
Other			
	_	_	

Permits		
401 Permit Coordination	X	
404 Permit Coordination	X	
1602 Permit Coordination	X	
City/County Coastal Permit Coordination		X
State Coastal Permit Coordination		X
NPDES Permit (402) Coordination	X	
US Coast Guard (Section 10)		\boxtimes

Attachement B: PEAR Mitigation and Compliance Cost Estimate*

District 04	County CC	Route 242	PM 0.0/3.4		EA 26980K
Description of	f Work Roadway	Rehabilitation			6
Project Manag	ger Patrick Pa	ng		Date	9-151
Prepared by	Peter Frey	7		Date	9-15-11

		Mitigation	• • • • • • • • • • • • • • • • • • • •	Compliance
	Project	Enviro.	Statutory	Permit &
	Feature ¹	Obligation ²	Require.3	Agreement ⁴
Fish & Game 1602 Agreement				
Coastal Development Permit				
State Lands Agreement				
NPDES Permit				
COE 404 Permit- Nationwide				
COE 404 Permit- Individual				
COE Section 10 Permit				
COE Section 9 Permit				
Other:				
Noise attenuation				
Special landscaping				
Archaeological				
Biological				
Wetland/riparian				
Historical				
Scenic resources				
Asbestos Testing/Mitigation				· · · · · · · · · · · · · · · · · · ·
Other:				
TOTAL (Enter zeros if no cost)	TBD	TBD	TBD	TBD

Costs are to include all costs to complete the commitment including: 1) capital outlay and staff support; 2) cost of right-of-way or easements; 3) long-term monitoring and reporting; and 4) any follow-up maintenance.

¹ Mitigation that Caltrans would normally do if not required by a permit or environmental agreement.

²Mitigation that Caltrans would not normally do but is required by conditions of a permit or environmental agreement.

³ Mitigation that Caltrans would not normally do and is not required by a permit or Enviro. Agreement, but is required by a law.

⁴ Non-mitigation Caltrans would not normally do but is required by conditions of a permit or agreement.

^{*}Prepare a separate form for each practicable alternative in the PSR.

TRANSPORTATION MANAGEMENT PLAN DATA SHEET (Preliminary TMP Elements and Costs)

Co/Rte/P	CC-242-PM			Project	
M	R0.0/R3.4	EA	26980k	Engineer	Jonathan Dang
Project Limit	In Contro Coots	Ca	hi-h 242	hataaaa DMO (A - DM2 4
Project	In Contra Costa	county on	nignway 242	. between PMU.L) to PM3.4
Descriptio	n Pavement Re	ehab			
					100.00
1) Public I	nformation				
· —	a. Brochures and	Mailers		\$	ņ€Ĵ
=	b. Press Release			T.	
=	c. Paid Advertisin	ng		\$	
	d. Public Informa	-	er/Kiosk	\$	
	e. Public Meeting		•		
	f. Telephone Hotl	•			
	g. Internet, E-ma				
	h. Notification to		groups		
_	(I.e. bicycle use		•	disabilities, oth	ers)
\boxtimes	i. Others			\$	5,000
2) Trav <u>el</u> e	r Information Str	ategies			
	a. Changeable M	essage Si	gns (Fixed)	<u>_\$</u>	
	b. Changeable M	essage Si	gns (Portabl	e) <u>\$</u>	65,000
	c. Ground Mounte	ed Signs		_\$	
	d. Highway Advis	ory Radio		\$	
	e. Caltrans Highv	vay Inforr	mation Netw	ork (CHIN)	
\boxtimes	f. Detour maps (i	i.e. bicycl	e, vehicle, p	edestrianetc)
	g. Revised Transi	it Schedu	les/maps		
\boxtimes	h. Bicycle commu	unity info	rmation		
	i. Others				
<u> </u>	t Management				
⊠a	a. Construction Zo		nced Enforce		
	Program (COZE	•		_\$	260,000
	b. Freeway Servi			_\$	
	c. Traffic Manage		am		
	d. Helicopter Sur			_\$	
	e. Traffic Surveill				
[]	(Loop Detector	and CCT\	/)	_\$	
	f. Others			\$	

TMP Data Sheet (cont.)

4) Construction Strategies		
a. Lane Closure Chart		
b. Reversible Lanes		
c. Total Facility Closure		
d. Contra Flow		
e. Truck Traffic Restricti	ons	\$
f. Reduced Speed Zone		\$
g. Connector and Ramp	Closures	
h. Incentive and Disince	entive	\$
i. Moveable Barrier		_\$
k. Others		\$
5) Demand Management		
💹 a. HOV Lanes/Ramps (N	lew or Convert)	\$
b. Park and Ride Lots		\$
c. Rideshare Incentives		\$
d. Variable Work Hours		
e. Telecommute		
f. Ramp Metering (Temp		\$
g. Ramp Metering (Mod	ify Existing)	\$
h. Others		\$
6) Alternate Route Strategies		
a. Add Capacity to Free		\$
	(widening, traffic signal	_
etc)		
c. Traffic Control Officer	rS	_\$
d. Parking Restrictions		
e. Others		\$
7) Other Strategies		.
a. Application of New Te	echnology	\$
e. Others		\$
TOTAL ESTIMATED COST O	F TMP ELEMENTS =	\$330,000.00
PREPARED BY	Marisa M-Kleiber	DATE 9/2/2011
APPROVAL RECOMMENDED BY	Shein Lin	DATE 9/2/2011

RISK MANAGEMENT PLAN DIS-LE.A.: 04-26980K CO-RIG-PM: CC-242-0.03.4 SHOPP 201.121 PAVEMENT REHABILITATION

	Date, Status and Review Comments	(21)					
Monitoring and Control	Status interval or Milestone Check	(50)					
Monitori	Responsibility (Task Manager)	(19)	Program Advisor Project Manager		Project Manager Project Engineer Program Advisor R/W Manager		Env. Analysis Mgr. Project Engineer
	Affected WBS Tasks	(18)					
Response Strategy	Response Actions including advantages and disadvantages	(12)	Elevate issue to management for resolution		Determine needs early in future field reviews; factor in costs/fimpacts		Determine need for mitigation early during future field curvews; factor in increased costs/fimpacts.
	Strategy	(16)	Acceptance		Acceptance		Acceptance
vsis	Risk Matrix	(12)	Probability X T M T Y Y L M T M T M T M T M T M T M T M T M T M	HA	Probability X L Z L Z L X L X L X L X L X L X L X L		L Σ T Y V L L Σ T Y V L L Σ T Y V L L Σ T Y V L L Σ T Y V L L Σ T Y V L L Σ T Y V L L Z T Y V L L Z T Y V L L Z T Y V L L Z T Y V L L Z T Y V L L Z T Y V L L Z T Y V L Z T Y V L Z T Y V L L Z T Y V L Z T
Qualitative Analysis	Impact	(11)	Moderate		Moderate		Low
Qual	Probability	(10)	Moderate		Moderate		MOJ
	Туре	(6)	Scope		Cost		Schedule
	Risk Trigger	(8)	Higher project cost due to additional proposed improvements could be a potential risk for project being considered for inclusion into 2012 SHOPP.		Field reviews would be needed to determine whether RW take and utilities relocation would be required for the curb ramps upgrade locations.		Field reviews during the next phase would be required to further investigate for any potential impacts, environmentally.
	SMART Column	(2)	A brief field review was conducted to redefine the scope of work for refreshing the project cost. Scope was generally cost. Scope was generally of improvements change the same, but quantities of improvements changed due to recent pavement reshab performed to the redealth performed to the redealth story and new MBGR construction and new MBGR construction were also proposed and added to the scope of this project.		Subject to underground utilities verifications, utility relocation(s) may be required.		Assuming the CE is updated without any changes. Thus, the approved PSSR will proceed directly in Design. Phase, bypassing the PA&ED Phase. No PA&ED phase. No PA&ED timelschedule assigned.
Identification	Threat/Opportunity Event	(9)	PID was approved on 10/2/2001 to program in 2002 SHOPP, HA-22 Program, but not programmed, nor refreshed for re-programming. Project scope, cost & schedule were outdated. No back up documents for project's quantities and costs estimate.		RWDS was completed on 9(3/1999, it was outdated. An additional proposed upgrade to existing curt ramps & sidewalks may require additional five lake and and underground utilities relocation. Due to schedule constraint in refreshing this PSSR, there was no field review schedule to further investigate the existing conditions of curb conditions of curb		The original PSSR is classified as a classified as a classified as a periodically Evempt (CE) for CECA and Programmatic Caegorical Exclusion for NEPA. The CE was issued and signed on 1/102/2000 (NEPA). It was outdated. Due to additional proprosed improvements, environmental determination for this project might be changed.
	Functional Assignment	(2)	Program/ Project Management		Right of Way		Environmental
	Date le Projec	(4)	8722/1	8/22/11	집	8/22/11	Q.
		<u></u>	-		7		6
	Status	<u> </u>	Active		Dormant		Domant
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RISK MANAGEMENT PLAN Dist-E.A.: 64-26800K Co-Rte-PM: CC-242-0.0/3.4 SHOPP 201.121 PAVEMENT REHABILITATION

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,	Date, Status and Review Comments							
Monitoring and Control	Status Status Interval or Date, Status Milestone and Review Check							
Monitoria	Respons (Task Mai	l .	Environmental Engineering Manager	Water Quality		Environmental	Engineering Manager, Environmental	Mitigation Manager
	Affected WBS Tasks							
Response Strategy		Determine need	during future field reviews; factor in	increased costs/impacts.		Determine need	during future field reviews; factor in	costs/impacts.
	Strategy		Acceptance				Acceptance	
sis	Risk Matrix	¥ = 2	Probab	VL L M H VH	Impact	는 사 도 도	Nobabil	VL L M H VH
Qualitative Analysis	Impact	i i	Low				Low	
Quali	Probability		Low					
	Туре	Schedule		Cost		Cost		Schedule
3	Risk Trigger	Construction activities could	pollute surface water bodies or cause band-side	erosion.		Recent field review was mainly focused on the	existing rigid and flexible pavements condition. No observation was made to	the existing drainage system.
4	SMART Column	SWPPP and Non-Storm Water Discharges	requirements would identify construction period Best Management	Practices (BMPs) to avoid impacts to surface waters.		The proposed improvements as not	specifically mentioned in the original PSSR might	cost increase or decrease.
Identification	Threat/Opportunity Event	Stormwater Pollution Prevention Plan (SWPPP) and snecial		be required due major AC/PCC rework anticipation.		Originally approved PSSR mentioned and allocated \$400k for	drainage rehab, but there specifically mentioned in were no project the original PSSR might documents to specifically fringer potential princer.	stating the proposed rehabilitation or improvements
	Functional Assignment	1	Environmental Engineering Water Quality			100	Hydraulics	
	Date Identified ID # Project Phase	8/22/11	G.			8/22/11	OP	
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	Status		Dormant				Dormant	
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Dist-County-Route: <u>04-CC-242</u>



		Taltrans*	Project Project	Type: <u>Pav</u> ID (or EA) n Identific	RO.00/R3.40 ement Rehabilit : 26980K eation: PID PA/ED PS&E	<u>ation</u>		
Regiona	l Wa	ter Quality Control Board(s): Reg	ion 2-San Fra	ancisco Ba	ay Region			
Is the project required to consider incorporation				ing Treatm	nent BMPs?	Yes □	No √	
2	2.	Does the project disturb 5 or mo	ore acres of s	oil?		Yes □	No √	
3	3.	Does the project disturb more th	nan 1 acre of	soil and n	ot qualify for			
		the Rainfall Erosivity Waiver?				Yes □	No √	
4	1.	Does the project potentially crea	ite permaner	nt water qu	uality impacts?	Yes □	No √	
5	5.	Does the project require a notific	cation of ADL	. reuse		Yes □	No √	
Erosivity This Sho Licensed upon wh	Wa ort F d Pe ich	watering Permit (if yes, permit no ver orm – Storm Water Data Report rson. The Licensed Person attes recommendations, conclusions, mp required at PS&E.	has been pre	nical info	rmation contain	of the followed herein an	No □ wing ad the data	
		Ma	240 PA K	7			09/12/2	
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			. .	-	ject Engineer		Date 	
					r quality design i and accurate:	ssues and Ti	na tnis	
		report to	oc complete	, our c rit c	and accurate,			
		η	~ /	11	^		09/12/20	M
[Stamp	o Red	uired for PS&E only) its Norman	Gonsalves, E	istrict SW	/ Coordinator or	Designee	Date	